Universal Quantum is building the quantum computers that will empower humanity to change the world.

What's the story?

We're solving the biggest challenge in quantum computing: scale.

Quantum computers have the potential to deal with the most difficult problems facing humanity. But to be useful, they need to scale up, without losing their quality and reliability.

We've created a modular system that can do this. And we've built that system on technology with record-breaking reliability and connection quality.

Who are we?

Universal Quantum:

- Was founded in 2017 by Professor Sebastian Weidt and Professor Winfried Hensinger, colleagues at the University of Sussex
- Unites scientists, engineers and operational teams determined to make cutting edge research a reality
- Is based at a state-of-the-art research and manufacturing facility in Haywards Heath.

Our experts have helped define and push forward the field of quantum computing. So, as well as telling our own story, we can also offer background and context for anyone covering the wider field.

What makes us special?

- Our UQLogic system gives us a ground-breakingly robust and scalable control of operations
- UQConnect links our modules at 2.4kHz with 99.999993% fidelity (reliability). Both are world records
- For the sector, our computers are strikingly practical to build
- For example, our system runs at a temperature of 70K (Kelvin) - a temperature we can achieve at scale using existing cooling power. This is much more practical than other approaches that need to reach a state of near-0K.

Who do we work with?

- We are working with the UK Government and the German Aerospace Center (DLR) to solve the big quantum problems
- We are part of several project consortias with partners like Rolls Royce, Riverlane, Oxford Instruments, Arm and Imperial College
- We're supported by top investors, including 7percent, Village Global and Propagator Ventures.

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